

Harsha Vardhan Maroju

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EDUCATION

Tezpur University, Tezpur, India

Bachelor of Engineering in Mechanical Engineering

Courses: Computational Fluid dynamics, Computer aided design and Solid Mechanics

Aug 2018 - June 2022

SKILLS

Programming & Markup Languages: Python, Java, JavaScript, HTML, CSS

Operating Systems: Linux (Ubuntu 18+), Windows 7+, MacOS

Frameworks and Libraries: Django, ReactJS, Pandas, Numpy

Databases: SQL, MySQL

Cloud Services: AWS

Tools/ Others: GIT, AWS EC2

PROFESSIONAL EXPERIENCE

DPR solutions Inc, Vijayawada, India

October 2022 - March 2022

HR Manager

- Managed end-to-end sourcing of qualified IT consultants for diverse projects.
- Cultivated and maintained strong relationships with clients, including staffing companies and consulting firms.
- Analysed job requirements to effectively match consultants with technical and skill set needs.
- Conducted comprehensive screenings and interviews to assess consultant skills, experience, and cultural fit.
- Facilitated the resume submission process, ensuring timely feedback and negotiation of placement deals.
- Provided ongoing support to consultants throughout the hiring process, including interview preparation, offer negotiation, and onboarding assistance.
- Stayed current with industry trends and market demands to align consultant bench accordingly.
- Ensured accurate and timely fulfilment of documentation, contracts, and compliance requirements for consultants and clients.
- Maintained detailed records of consultant pipelines, placements, and client interactions for business analysis.
- Actively participated in industry events, conferences, and networking groups to expand professional network and generate new business opportunities.
- Proactively sought feedback from clients and consultants to enhance the recruitment process and optimise client.

PROJECT HIGHLIGHTS

Web Development Project: Django E-Commerce Site | [GitHub](#) | Django, HTML, CSS, JS

- Implemented secure user login and registration.
- Created a functional shopping cart for item management.
- Dynamically displayed apparel data from an external API and cleaned the API response as per the requirement.
- Integrated predictive search for apparel previews based on user input.
- Designed and implemented a contact us page storing inquiries in the database.

Urban Dictionary Web Scraper | [GitHub](#) | Python, BeautifulSoup, AWS EC2

- Developed a Python web scraper to collect word definitions from the Urban Dictionary website.
- Utilized the requests library for HTTP requests and BeautifulSoup for HTML parsing.
- Implemented functions to extract definitions from specific HTML elements.
- Employed a dynamic approach, iterating over characters and pages to retrieve a comprehensive set of word definitions.
- Incorporated a custom user-agent for enhanced web scraping efficiency.
- Incorporated AWS EC2 to run the script in cloud.
- Stored the collected definitions in a structured JSON format.
- Project resulted in the creation of a dataset for further analysis and research.

Cold Email Sender | [GitHub](#) | Python, SMTP, Pandas, Email Message

- Developed a Python script for sending personalized cold emails using Gmail.
- Utilized `smtpplib` for email sending, `pandas` for data handling, and `EmailMessage` for constructing email messages.
- Read recipient data from an Excel sheet and dynamically extracted first names.
- Incorporated email attachments with support for various file types.
- Implemented secure email transmission using SSL.
- Enabled two-step verification and utilized a 16-character app password for Gmail authentication.
- Automated email sending process, providing a scalable solution for communication.

Computational Fluid Dynamics (CFD) Code Development | [GitHub](#) | C++, Tecplot 360

- Implemented a 2D grid with uniform spacing in x and y coordinates.
- Calculated cell volume, centroid, and unit normals at faces for grid generation.
- Set up initial conditions for density, pressure, temperature, velocity, and energy.
- Initialised density, momentum, and energy variables as conservative variables.
- Applied a CFL-based time-stepping scheme for temporal discretisation.
- Defined boundary conditions for top, right, bottom, and left faces.
- Computed fluxes at vertical and horizontal faces using Roe's flux splitting for flux calculation.
- Calculated contributions for mass, momentum, and energy in face and cell fluxes.
- Checked convergence using a residue criterion and updated cell variables accordingly.